

TENDER FOR

SUPPLY AND DELIVERY OF ONE (1) NEW, CURRENT PRODUCTION, CAB AND TANDEM CHASSIS FOR SNOW PLOW, ICE CONTROL, AND DUMP TRUCK OPERATIONS

Issue Date: February 10, 2022

Closing Date: March 4,2022

SUPPLY AND DELIVERY OF ONE (1) NEW, CURRENT PRODUCTION, CAB AND TANDEM CHASSIS FOR SNOW PLOW, ICE CONTROL, AND DUMP TRUCK OPERATIONS

Town of Deer Lake Tender Package

The Town invites tenders for the supply and delivery of one (1) new, current production, cab and tandem chassis for snow plow, ice control, and dump truck operations.

Tender packages are available at the Town Hall, 34 Reid's Lane, Deer Lake, NL between the hours of 8:30 am – 4:30 pm, Monday to Friday (except on public holidays). Tenders are to be submitted on forms provided and contained in sealed envelopes addressed to the Town Manager, clearly marked 'TANDEM TENDER', and must be delivered to:

Deer Lake Town Office 34 Reid's Lane, Deer Lake, NL A8A 2A2

Tenders will not be accepted no later than March 4, 2022 at 1:00 pm. A public tender opening will take place immediately after the tender closes.

The Town reserves the right to reject the lowest and/or any bid. The Town will not necessarily accept the lowest or any tender, and reserves the right to purchase any unit that the Town deems best overall value, and what best meets the Town's needs in machine specifications, warranty, and/or standard options

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INSTRUCTION TO BIDDERS

1. TENDER

(a) Envelopes containing the Tender are to be sealed and clearly marked:

TANDEM TENDER

Addressed to: Town of Deer Lake Town Manager 34 Reids Lane. Deer Lake, NL A8A 2A2

The name and address of the Bidder and the closing time must be shown on the envelope.

- (b) Tenders must be received at the above address before March 4, 2022 at 1:00 pm. TENDERS RECEIVED AFTER THAT TIME WILL NOT BE CONSIDERED.
- (c) Faxed and e-mailed tender bids will not be accepted.
- (d) Should further information be required, please contact David Thomas, Town Superintendent at dlpublicworks@nf.aibn.com All questions and inquiries must be addressed via email.
- (e) Inquiries and requests for clarification shall be accepted up to three (3) business days prior to the closing time. Inquiries and requests for clarification received after this date shall not be addressed. Verbal responses shall not be binding on either party.
- (f) To ensure consistency and quality in the information provided to bidders, the Town of Deer Lake shall provide, by way of amendment to this tender in the form of an addendum to all bidders who have registered to receive amendments, any relevant information with respect to the tender inquiries received in writing without revealing the source of those inquiries. Bidders are cautioned that it is their responsibility to ensure that they receive all information relevant to this tender. The owner shall not be responsible for bidders who fail to inform themselves about the tender and relevant details.

- (g) The Town will not defray any expenses incurred by bidders in the preparation and submission of their tenders.
- (h) The Town reserves the right to reject the lowest and/or any bid. The Town will not necessarily accept the lowest or any tender, and reserves the right to purchase any unit that the Town deems best overall value, and what best meets the Town's needs in machine specifications, warranty, and/or standard options.

2. TENDER DOCUMENTS

- (a) The Tender Documents consist of the Instructions to Bidders, Tender Form, Specifications, and any Amendments to the Contract Documents issued during the tender period.
- (b) Every interpretation of, or addition to, the Contract Documents to be considered a valid part of the Contract Documents will be issued in the form of a written addendum.
- (c) No addendums will be issued less than two (2) business days prior to the closing date of the Tender.
- (d) Tenders shall be submitted on the form provided as appendix A.
- (e) It must be clearly understood that the specific requirements as stipulated in the specifications are not to favour one supplier over another, and therefore, where a dispute arises out of the intent of certain requirements or specifications, the Town of Deer Lake reserves the right to act as sole arbitrator in determining the legitimacy of all matters in dispute.
- (f) The delivery date will be a point of consideration in awarding the tender.

3. COMPLETION OF TENDER FORM

- (a) The Tender Form, including the specifications, is to be completed in its entirety. The Bidder should retain a copy of the tender for her/his records.
- (b) Type or legibly print the Bidder' full business name and full address in the spaces provided on the Tender Form.
- (c) Type or legibly print the information required on the Tender Form.

Sign the Tender Form in the space provided as indicated. In the case of a Sole Proprietorship, the Sole Proprietor will sign where indicated in the presence of a witness who will sign where indicated. Insert the words "Sole Proprietor" next to the signature.

In the case of a Partnership, all partners will sign where indicated in the presence of a witness who will sign where indicated. Insert the word "Partner" next to signatures.

In the case of a Limited Company, signatures of authorized signing officers in the presence of a witness who will sign where indicated, and the corporate seal will be affixed. Indicate next to signature the corporate title of each authorized officer.

- (d) Quotes shall be listed on the attached form.
- (e) The bidder shall provide a point- by-point response to all requirements laid out in the tender and the specifications included in the tender form.
- (f) Unit must be new and fully equipped for immediate use.
- (g) Unit must be in production (not a prototype).
- (h) All applicable taxes must be included in the tendered price. Tender price shall be all inclusive.
- (i) All prices F.O.B., Town of Deer Lake, 12 Gatehouse Road, Deer Lake, NL, A8A 1L3

(j) Delivery time must be filled in the space provided in the summary quotation and within the specifications.

(k) Bidders must submit full descriptive literature and specifications on the unit quoted.

(I) If it becomes necessary to correct an error made on the Tender Form, such correction must be initialed and dated by the person or persons signing the Tender Form.

4A. SUBSTITUTION OF MATERIALS

- (a) Specifications are set forth as being the <u>minimum requirements</u> of the products to be purchased. Where certain specific measurements or requirements are stated, it is expressly understood that the words "or equal" shall apply.
 - i. Accordingly, it is essential that <u>all bidders must submit complete</u> <u>detailed specifications on the products quoted.</u>

4. UNACCEPTABLE TENDERS

- (a) Faxed and e-mail tenders will not be accepted.
- (b) Incomplete tenders will be rejected.
- (c) Incorrectly prepared tenders may be rejected.
- (d) Tenders not submitted on the Tender Form provided will not be considered.

- (e) Tenders containing qualification or additional clauses to the Tender Form will be rejected.
- (f) Any tender not conforming to the Specifications, General Terms and Conditions and Instruction to Bidders shall be rejected.
- (g) Tenders received after the Tender Closing time will not be considered.

5. AMENDMENTS TO TENDER

Properly documented amendments to the Tender will be permitted up to the Tender closing time. Amendments documented by fax or e-mail (PDF format) will be acceptable. Faxed amendments should be signed and dated by the individual submitting the original tender document.

6. ACCEPTANCE OF TENDER

- (a) The Town reserve the right to reject the lowest and/or any bid. The Town will not necessarily accept the lowest or any tender, and reserves the right to purchase any unit that the Town deems best overall value, and what best meets the Town's needs in machine specifications, warranty, and/or standard options
- (b) Upon written acceptance of the tender within the tender period, the Tender Form becomes part of the Contract Documents.
- (c) If the successful vendor cancels the contract for any reason, the Town of Bishop's Falls reserves the right to contract with another bidder meeting the terms and conditions of the original tender call.

7. WITHDRAWAL OF TENDERS

Bids may be withdrawn without penalty by documented fax or e-mail (PDF format) if received prior to the time fixed for the opening. Faxed requests should be signed and dated by the individual submitting the original tender document.

8. PROVINCIAL REFERENCE POLICY

Tender evaluation and award of contract for this purchase will be done in accordance with the procurement legislation and policies for the Province of Newfoundland and Labrador.

9. DISCLOSURE OF TENDER DOCUMENTS

The documentation submitted in response to this Invitation to Tender, as well as any correspondence or additional information provided to the Town by bidders, in connection with this Invitation to Tender, shall become the Town's record, and thus will be deemed subject to the *Access to Information and Protection of Privacy Act.* Each bidder's name and bid price shall be made public.

In their submission, bidders are encouraged to identify any scientific, technical, commercial, etc. information of confidential nature disclosure of which could reasonably cause them harm.

10. TERMINATION OF CONTRACT

It is hereby understood and agreed that the Town of Deer Lake reserves the right to terminate this contract and withhold payment for any or all of the following reasons:

- (a) If the good is of a sub-standard nature;
- (b) If the contractor does not adhere to all the terms, conditions and specifications of the contract.

Appendix A- Tender Form

Supply and Delivery of one (1) new, current production, cab and tandem chassis for snow plow, ice control, and dump truck operations.

SUMMARY OF QUOTATION

After having read and considered the Specifications (see below), Terms and Conditions for the Supply and Delivery of one (1) new, current production, cab and tandem chassis for snow plow, ice control, and dump truck operations, we hereby offer to supply and deliver the unit as follows:

Year Make and Model Specified:	-
Net Price As Specified Per Unit:	\$
Shipping	\$
HST	\$
Total Price	\$

F.O.B. Deer Lake. Off loaded by supplier- Town of Deer Lake, 12 Gatehouse Rd, Deer Lake

After reading this request for quotation	, we(Name of Firm)
guarantee delivery of the specified uni	t to the Public Works Depot,
Deer Lake, NL,	weeks/days from receipt of
purchase order.	

SIGNATURE SECTION
Authorized Signature:
Name and Position:
Witness:
Mail Date:
Address of Bidder:
Telephone:
Fax Number:
Email Address:

SPECIFICATIONS

Number	Specification	YES	NO	Details/Comments
	Supply and deliver 1 new, current			
1	production, cab and Tandem			
1	chassis for snow plow, ice control			
	and dump truck operations.			
				Make
2	Tandem Truck Chassis			Model
				Year
_				Make
3	Truck Dump Body			Model
				Year
4	Truck Frank Discu			Make
4	Truck Front Plow			Model
-				Year
5	Iruck Front Wing			
	It will be the responsibility of the			
	deficiencies in these			
	denciencies in these			
6	specifications, for under this			
0	rosponsible for the design			
	performance, reliability and			
	satisfactory operational function			
	of the unit provided			
	The Truck/Plow/Sander shall be			
	furnished complete and ready for			
	use. All parts not specifically			
	mentioned, but which are			
7	required to complete and place			
	the unit into successful operation,			
	shall be furnished as though			
	specifically mentioned in these			
	specifications.			
	Unit shall be tandem axle, dump			
	box with side dump design, and			
Q	will be configured and provided			
0	with fully functional spreader and			
	fully functional front plow blade			
	and front Wing blade.			
9	Truck Chassis			
10	Unit must meet Highway Traffic			
10	Act for NL in year of delivery.			
	Gross vehicle weight rating shall			
11	be minimum 30,000 kg.			
	Front axle capacity shall be			
12	minimum 9,072 kg.			

13	Rear axle capacity shall be minimum 20,870 kg and 142 cm spread.		
14	Henderickson HMX suspension or approved equal.		
15	Unit suspension shall be tailored to equal or better than the axle capacity.		
16	Unit chassis to have set back axle		
17	Unit to have shortest CA possible, as recommended by the manufacturer.		
18	Unit to be equipped with driver controlled differential locks in both rear axles.		
19	Rear axle ratio to be 5.63		
20	Rear most differential shall be equipped with an oil pump and filter.		
21	Unit to be equipped with compressor providing minimum 16 CFM		
22	Unit to be provided with 2 tow hooks front and back.		
23	Chassis to be undercoated with corrosion protection.		
24	A Bendix heated air dryer, or approved equal, of suitable capacity shall be supplied for the air brake system, mounted inside the chassis rails.		
25	An air pressure protection valve shall be included to give priority to the truck air brake system.		
26	An air reservoir moisture drain valve to be included, with automatic operation on the air tanks		
27	Piggy back spring loaded park brake shall be supplied, activated by yellow in cab knob.		
28	Brakes to be equipped with automatic slack adjusters and brake travel indicators at all wheels, Bendix or approved equal.		
29	Unit to have full power steering		

	Stemco type seals, or approved		
30	equal, shall be installed on front		
	and rear axles.		

	Chassis to have reinforced		
	channel with heat treated Alloy		
31	Steel having 120.000 psi		
	minimum.		
	Front of frame shall be extended,		
	baring the same engineering		
	capacities as the remainder of the		
32	frame, by approximately 50 cm		
	for hydraulic pump and front plow		
	mounting.		
	The front suspension shall allow		
33	for the weight of the wing		
	attachment and shall keep the		
	truck cab in a level position at aal		
	times. Right hand spring build up		
	required to achieve this option.		
	DFE tank to be located on the		
	same side of the truck as the fuel		
34	tank, not interfering with the		
	snow equipment.		
	Aluminum tank with minimum		
	fuel capacity of 265 L. located		
35	under drivers side, which does not		
	interfere with snow equipment.		
	Steel wheels with approximately		
36	8.25" diameter rear rims and 12"		
	diameter front rims.		
	Front tires shall be 20 ply, 425-		
	65R x 22.5 Michelin XZY or		
27	approved equal) and rear tires		
37	shall be 16 ply, and 11R x 22.5		
	(snow and ice Bridgestone W919		
	or approved equal)		
20	Chassis shall be equipped with		
38	front hitch to operate a blade.		
	Blade hitch to be attached so that		
	bonnet and fenders can tilt		
	forward easily to its maximum		
39	position for daily inspection.		
	Lifting chain hook plates to be		
	5/8"; Lifting chain to be 1/2" short		
	link Grade 80.		

	Front blade hitch to be a quick			
	coupler system installed for easy			
	blade hookup. Coupler systems			
40	must be hydraulically operated to			
40	raise and lower and angle left or			
	right. Must have a			
	depressurization circuit controlled			
	from the joystick console.			
41	Truck Cab	<u> </u>		
42	Cab shall be conventional			
	Cab shall have minimum 6 extra			
43	switches for snow clearing			
	equipment.			
	Fenders to be outfitted with a			
	minimum 120 mm flexible full			
44	coverage continuous rubber			
	fender extensions around the			
	entire wheel well openings.			
	Bonnet is to have hatch to provide			
15	access for daily maintenance			
45	inspections without having to			
	open the bonnet.			
	Fully adjustable bigh back air ride			
	driver seat (National or equal)			
	Driver's seat to be all cloth with a			
	wide base. Comfort features:			
	Isolator, 3 Chamber Lumbar			
46	support (lower, middle, upper).			
	Front seat cushion adjustment.			
	Backrest and seat cushion side			
	support . Armrest angle			
	adjustment, Full seat/backrest			
	and ride height adjustments.			
	Passenger seat shall be non			
47	suspension, high fixed back with			
	integral headrest - to be used			
	with batteries stored beneath.			
40	Cab shall be equipped with rubber			
48	floor mats.			
40	Cab shall have driver and			
	passenger sun visors.			
50	Cab shall be equipped with driver			
	and passenger arm rest			
	Cab shall have variable speed			
	intermittent wipers with arctic			
51	blades and windshield wash			
	system, with largest capacity			
	possible.			

52	Cab shall have 2 powered and heated mirrors. Brackets and arms shall be breakaway type in the range of 6" x 16"		
53	Unit to have on the right front hood location a tripod frame mounted additional 12" heated convex mirror.		
54	Extra heated mirrors shall be installed on driver and passenger side below main mirrors so driver can see spinner and passengers side blind spot; convex and approximately 8".		
55	Cab access and egress to be provided with adequate steps and grab handles to ensure safe three point entry and exit, with the first step not higher than 50 cm above the ground.		
56	Cab shall be equipped with a 3		
	speed heater and defroster as well as air conditioner		
57	Cab to include coat hook located on rear wall.		
58	Cab to have two cup holders located in centre of instrument panel.		
59	Cab to have LED dome light.		
60	All windows are to be safety and tinted.		
61	Cluster to include metric speedometer, outside air temp, engine oil pressure, water temperature, fuel, transmission oil temp, tachometer, voltmeter, washer fluid level.		
62	All fluid levels on truck are to be at a maximum fill level		
63	Odometer to display Kms, trip kms, engine hours, trip hours and fault code readout.		
64	Both visual and audible warning systems for low fuel, low oil pressure, high engine temp and low battery voltage.		
65	Seat belts shall be 3 point lap and shoulder type, safety orange.	 	
66	Cab shall have sound insulation, with heavy duty insulation.		

	67	Cab shall have air horn with snow		
	07	screen.		
	68	Unit shall be provided with 2 sets		
_		of keys.		
	69	Cab shall have power windows		
-		and locks.		
_	70	Cab shall have tilt steering.		
		The right cab door shall have		
	71	lower blind spot safety window		
-		and mirror.		
	70	Cab shall be equipped with		
	12	Aivi/Fivi radio and nave a		
ŀ		Padios shall have		
	73	Rivetooth/handsfree capability		
		Bidetootin/nandsiree capability.		
		Unit shall be equipped with a dual		
	74	camera system, having a		
		minimum /" monitor located in		
		CdD.		
		of the right side from the front		
		and looking rearwards and		
	75	directly behind for reversing		
		Defaults to rear view when		
		reverse is engaged.		
		The rear Camera shall be located		
	76	on the tailgate, middle,		
		underneath the top first rib.		
	77	Cab to have floor covering made		
	,,	of rubber.		
	78	Truck Engine		
		Truck Engine shall be Cummins, or		
	79	approved equal. No Max Force		
		engine.		
	80	Engine shall have minimum 370		
		np.		
	81	Engine shall have minimum 1250		
		The engine shall be equipmed with		
		an Allicon 2000 RDS R sorios		
	82	automatic transmission or		
	02	approved equal filled with		
		synthetic oil and marked		
	83	Engine shall be Tier compliant.		
	83	Engine shall be Tier compliant.		
	83 84	Engine shall be Tier compliant. Engine shall have dry element air cleaner	 	
	83 84	Engine shall be Tier compliant. Engine shall have dry element air cleaner Engine base pan to be made of a		
	83 84 85	Engine shall be Tier compliant. Engine shall have dry element air cleaner Engine base pan to be made of a corrosion resistant material.	 	
	83 84 85	Engine shall be Tier compliant. Engine shall have dry element air cleaner Engine base pan to be made of a corrosion resistant material. Engine shall have full flow		
	83 84 85 86	Engine shall be Tier compliant. Engine shall have dry element air cleaner Engine base pan to be made of a corrosion resistant material. Engine shall have full flow replacement canister type oil		

	Engine shall have heavy duty			
87	radiator. Stone guard radiator			
	screen in front grill.			
88	Engine shall have cold start assist.			
80	Engine electrical system shall be			
85	12 volts.			
	Unit to have master electrical			
	power disconnect switch located			
90	inside the cab, between the two			
	seats. Required to have lock			
	out/tag out feature.			
91	Engine shall have antifreeze			
51	protoction to 40 dogroos C			
	Potection to -40 degrees C.			
	Batteries and battery box			
02	spray or otherwise scaled to			
92	splay of otherwise sealed to			
	located in a seal and vented non			
	corrosive container			
	Batteries to be maintenance free			
93	type.			
	Alternator must have minimum			
94	165 A			
-	Engine must have block heater			
95	with plug located at the front of			
95	with plug located at the front of the truck.			
95 96	with plug located at the front of the truck.			
95 96	with plug located at the front of the truck. Electrical Lighting shall conform with the			
95 96 97	with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act			
95 96 97	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a 			
95 96 97 98	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. 			
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95 96 97 98 99 100 101	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on 			
95 96 97 98 99 100 101	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. 			
95 96 97 98 99 100 101	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. Unit to have hazard and parking 			
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95 96 97 98 99 100 101 102 103	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. Unit to have hazard and parking lights. Unit to have stop, turn, tail and dual backup lights. 			
95 96 97 98 99 100 101 102 102 103 104	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. Unit to have hazard and parking lights. Unit to have stop, turn, tail and dual backup lights. Turn signal shall be self cancelling. 			
95 96 97 98 99 100 101 102 103 104	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. Unit to have hazard and parking lights. Unit to have stop, turn, tail and dual backup lights. Protective flex-tubing is to be 			
95 96 97 98 99 100 101 101 102 103 104 105	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. Unit to have hazard and parking lights. Unit to have stop, turn, tail and dual backup lights. Turn signal shall be self cancelling. Protective flex-tubing is to be used to prevent chaffing of wires. 			
95 96 97 98 99 100 101 102 103 104 105	 with plug located at the front of the truck. Electrical Lighting shall conform with the Province of NL Motor Vehicle Act Truck shall be equipped with a minimum of 5 LED cab markers. All truck markers and lights to be LED Headlights to be Heated LED. Unit to have Data link connector for vehicle programming and on board diagnostics in cab. Unit to have hazard and parking lights. Unit to have stop, turn, tail and dual backup lights. Turn signal shall be self cancelling. Protective flex-tubing is to be used to prevent chaffing of wires. Waterproof connections are to be 			
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107	Auxiliary heated LED plow headlights shall be mounted so that hood function is not impeded and high enough to provide lighting in a raised plow configuration. Plow lights to have integrated signal light; wiring to be installed at the factory on a separate switch; plow lights to be mounted in such a way as to eliminate vibration; Plow lights		
	installed on the hood to have an adjustable base.		
108	Adjustable LED flood work lights shall shine on spinner and conveyor.		
109	2 LED adjustable side mountedflood work lights shall be installedso discharge can be seen. Also,2 LED mirror mounted lights.		
110	All auxiliary lights shall be switched separately in a sealed waterproof housing.		
111	Junction boxes shall be used for tail gate lighting. All junction boxes to be sealed and waterproof. Junction boxes to be filled with dielectric grease. All wiring to be continuous from the junction box; no splicing of wires is acceptable. All cord or loom to be secured every 30 cm (maximum).		
112	2 LED strobes, 1 amber and 1 blue, shall be mounted on cab protector. (Class I)		
113	Each rear corner of dump box shall have LED blue, amber and backup. (Class I)		
114	All vehicle lighting to be controlled within cab and the entire system shall be completely sealed with waterproof junction box and lamps.		
115	There shall be no splicing into the trucks electrical system. All connections must be via a sealed and protected plug.		

	Electrical connection junction		
	boxes are to be located away		
	from road and tire spray and		
	provided with additional		
110	protection to guarantee moisture		
116	proof connection integrity. Grote		
	Ultra Blue seal module harness		
	system (or equivalent) to be used		
	from junction box to both left and		
	right rear dump posts for park,		
	signal and backup light.		
117	Dump Box		
	Dump box hoist shall be front		
	mounted Mailhot 25 ton		
118	telescopic to provide a minimum		
	45 deg dump angle.		
110	Gear box for dump shall have a		
119	ratio of 25:1		
	Dump box to be combination use		
	of conventional dump body for		
	regular dump truck use and		
120	equipped with driver's side		
120	longitudinal conveyor for		
	spreader mode for salt, sand and		
	aggregate spreading, with side		
	dump.		
	Larochelle-BER 1339 or Tenco TC-		
	131-B Side Dump box spreader or		
	preapproved equal with driver		
	side longitudinal conveyor. The		
	box should tip backwards for		
121	regular dump truck, use and		
	discharge from front of the driver		
	side when operated as a spreader.		
	Minimum box volume capacity of		
	11.2 cubic yards and 24" cab		
	protector (10 GA).		
	Dump box front panel height shall		
122	be minimum 70 inches to the		
	bottom of the cab protector.		
100	Dump box tailgate height shall be		
125	minimum 54 inches		
	Dump box side panel height shall		
	be approximately 39 inches or		
124	another size approved by the		
	Town. Pockets shall be provided		
	on the box side for a 2" thick		

	extension cords to increase capacity by the depth of 8".		
125	Dump box exterior length shall be maximum 15 feet excluding cab protector.		
126	Dump box width shall be maximum 99 inches.		
127	Dump box construction shall be reinforced, a high tensile strength steel construction, Hardox 450 or approved equal.		
128	Front, side and tailgate panels shall be minimum 3/16 inch thickness.		
129	Dump box to have tailgate spreader chains with a grab link.		
130	Dump box must have guides, hinges and safety props to allow body to be tipped and safely supported while empty for servicing.		
131	Dump box shall have minimum 24 inch back of cab protection for loading of materials of a minimum 10 ga steel.		
132	The rear body hinge to have a minimum of 2 inch diameter pivot pins equipped with grease fittings.		
133	Dump box to have removable screens with a hatch on top of dump box.		
134	Opening and closing of the tailgate latch to be cylinder activated, in cab switch controlled, with the cylinder in the retracted position when the tailgate latches are in the locked position.		
135	Ladder, 16 inches wide, with upper hand rails having anti-slip ladder rungs (safety tread or approved equal) to be installed on left side of box with bottom rung		

	not to exceed 30 inches above ground level.		
136	Tailgate to be provided with hand operated centre gate providing an opening of minimum 1.75 square feet.		
137	Dump Box Conveyor		
138	Chain must be minimum 88K grade with 49,000 lbs breaking strength.		
139	The conveyor shall be recessed in the floor and covered with a steel plate, of heavier gauge than the box floor, when not in use.		
140	The steel conveyor shall be supplied with the dump box.		
141	A scraper and sweep on the return chain must be included to prevent material migration along the chain path.		
142	The hydraulic motor and gear reduction drive must be capable of turning the conveyor with a full load of sand, one complete revolution within 70 seconds or less at 1500 engine RPM.		
143	Conveyor shafts to be mounted on self-aligning bearings equipped with grease fittings.		
144	Conveyor chain tension adjustment mechanism to be provided.		
145	Dump box conveyor shall be supplied with ground speed oriented servo metering device to ensure continuous constant application rate of material at variable ground speeds.		
146	Flow control rate to be provided with a screw type adjustable mechanism, to include a calibrated scale and a seal device to prevent unwanted tampering.		

	The application controller must be		
147	capable of controlling solid		
	material.		
148	Left Side Discharge		
	Front left hand discharge		
149	direction is to be provided.		
	The spinner spreader location will		
150	be front left just ahead of left		
	tandems.		
151	Left side equipped with a chute		
151	and spinner assembly.		
	Conveyor shafts to be mounted		
152	on self-aligning bearings equipped		
	with grease fittings.		
	Side discharge conveyor to have		
	sufficient clearance above, and		
153	tall enough sides and seals to		
	prevent unwanted material		
	spillage.		
	to have sufficient speed to		
154	nomote a constant material		
	supply to the spinner		
	Assembly to be bolt mounted to		
155	the frame to allow easy removal		
	for servicing.		
156	The Spinner	1	
	The single spinner assembly shall		
	be mounted behind the cab but		
	forward of the left hand side rear		
157	axle with extra reinforcement to		
	the arm from the chassis to keep		
	spinner assembly free from extra		
	vibration.		
158	The spinner and discharge chutes		
150	shall be separate components.		
150	Spinner shall be able to adjust up,		
123	down, inward and outward		
	Chute shall be adjustable to		
	different angles and the		
160	narrowest part of the chute shall		
	be a minimum 25 cm wide. Chute		
	to be polymer or polymer-lined.		

	The spinner shall be hydraulically		
	driven with reversable function		
	Connection to spinner motor to		
	be swick disconnect. Drewision		
161	be quick disconnect. Provision		
_	must be made to attach ends of		
	flexible hoses to dump box frame		
	when disconnected from spinner		
	motor.		
8	Spreading width shall be		
	adjustable from 1 to 12 meters		
162	and to remain constant regardless		
	of truck speed or engine rpm.		
	Spinner assembly to be easily and		
	quickly removable (1 bolt on		
163	handle for change over to regular		
	dument much use)		
	The spinner shaft to be a		
	minimum of 22 mm diameter and		
	roll on 2 sealed ball bearings		
164	equipped with provisions for		
	greasing or with permanently		
	sealed baring and protective		
	outer cover tube.		
	Spinner size to be minimum 45 cm		
	in diameter with spinner divided		
	into equal segments with fins.		
4.65	Disc is polyurethane or		
165	polyurethane coated. Adjustable		
	deflector hood around the		
	spinners to control material		
	spread location.		
	Spinner bydraulic meter shall be		
166	Spinner nyuraulic motor shall be		
	Char-Lynn #1 or approved equal.	 	
	Unit shall have an adjustable		
167	hinged cone type guard over the		
107	spinner to constrain upward		
	travel of material.		
	Lowest point of spinner must		
168	have a minimum 35 cm of ground		
	clearance.		
169	Hydraulic Pump		
	The pump shall be a variable		
	displacement piston pump to be		
	capable of providing sufficient		
170	volume and pressure as required		
1,0	to perform all of the trucks		
	required output function		
	concurrently		
1		1	

171	The pump shall be front engine crankshaft driven.		
172	Input shaft on the pump shall be splined, 1-1/4" keyed.		
173	Pump drive shaft to be supplied with keyed of sufficient length to allow telescopic retraction of the shaft in order to change fan belt without pump removal.		
174	The fluid inlet port of the pump shall be 2 inch diameter. All suction lines need to match the port side.		
175	Inlet and outlet ports shall be supplied for flange type couplings to attach lines. SAE solid flanges and O rings, size 1 and 2 inch shall be supplied. Threaded body parts are not acceptable. No black iron piping is acceptable.		
176	Hydraulic Valve Bank		
177	The valve bank shall be located behind the cab, and accessible in a seal box that will allow room to work on valve bank.		
178	All sections must be equipped with a manual override system.		
179	Each section shall be clearly marked to identify its properties.		
180	All section spool proportional control.		
181	The valve bank supplied shall have sections that will permit interchange ability of spools.		
182	All inlet and outlet work ports on each section and end covers shall be constructed to accept SAE O ring connectors.		
183	The valve assembly shall be capable of operating at -40 degrees C. If required, the system shall be equipped with a purge valve system for cold weather operation.		
184	Box hoist - 1 only proportional 3 way tandem centre, 25 GPM.		
185	Plow angle - 1 only proportional 4 way tandem centre, 10 GPM.		

	All valve assemblies shall be flow		
186	tested for leaks and adjusted for		
	specified GPM for each section.		
	Complete valve bank must be fully		
	functional and contained within a		
	moisture proof containment		
	box having inside dimensions of		
	large enough size to facilitate easy		
	repair and maintenance of the		
	valves contained within. Enclosure		
187	to have a powder coated black		
	paint (Aluminum/stainless steel		
	acceptable); All hardware to be		
	stainless steel; Valve to be		
	mounted internally to a transition		
	plate for improved sealing and		
	easy removal for servicing if		
	required.		
188	Hydraulic Valve Controllers		
	To be equipped with an dual		
	electronic programmable joysticks		
	mounted in an armrest console		
	for plow and wing controls.		
189	Joysticks are to incorporate a		
	deadman button for safety.		
	Joysticks are to be programable		
	for function speeds through the in		
	cab spreader control.		
	Function of operation of joystick		
190	and selector switches to be clearly		
	labelled.		
	All controls for dumping,		
	spreading, blade lift and angling,		
191	etc. must be pedestal console		
	mounted for ergonomic comfort		
	and ease of application by the		
	The nodestal to provide for at		
	least 5 inches of variable		
102	adjustment range throughout		
1.52	three dimensions (fore & aft up		
	and down, and left to right)		
	Controls to be positioned per		
	customer preferred lav out as		
193	joystick function and selector		
	switch function.		

	Required variations for different			
104	location and layout to be			
194	approved prior to order			
	placement, by Town.			
195	Filters			
106	Filter shall meet capabilities and			
190	flow of the pump supplied.			
	1 only in line cartridge element			
107	pressure filter and housing shall			
197	be supplied with minimum #16			
	SAE O ring thread.			
	Filter shall meet flow capabilities			
198	and pressure of pump and provide			
	filtering levels to 10 microns			
	absolute			
199	Filters shall be provided with			
	bypass capabilities.			
	return filter and housing shall be			
200	supplied with NPT fitting			
	connections.			
	Filter shall be supplied with house			
201	for NPT fittings.			
	Filter shall have a rating of 10			
202	microns and shall have bypass			
	capabilities.			
202	Housing supplied with a 0-25 psi			
203	pressure restriction gauge.			
204	Hydraulic Reservoir Accessories	•		
	Reservoir to have low oil level			
205	alarm, located inside the vehicle			
	cab.			
	Reservoir to have oil sight glass			
206	including an oil temperature			
	gauge provided. Sight glass shall			
	have 5 inch c-c mounting holes.			
	Oil reservoir to have a convex			
207	to onsure self cleaning by			
207	reducing the collection (retention			
	of trash.			
	avceed 70 L and be capable of			
208	providing sufficient volume as			
200	required to perform all of the			
	trucks required output functions			
1		1	1	

	within acceptable industry		
	standards.		
	1 only 12 inch round clean out		
209	cover with 5/8 inch securing bolt		
205	in centre of dome or approved		
	equal shall be supplied.		
	1 only test port connector, quick		
210	disconnect to match test gauge		
	shall be supplied at valve inlet.		
	Tank shall be vented by a screw		
211	on type breatner filter naving 10		
211	domont and NPT adaptor shall be		
	supplied		
212	Hudraulic System		
212	The hydraulic system shall be a	1	
	central system to allow raising of		
	body for conventional dumping		
213	without disconnecting the		
	hydraulic conveyor or spinner		
	motor.		
	Hydraulic lines, on the frame and		
	with the box, which run in a		
	straight line shall be made of		
214	stainless steel tubing. These		
217	lines and flexible hoses shall be		
	designed to withstand the		
	operating pressure with a safety		
	factor of industry standards.		
	All hydraulic lines to be positioned		
	as to not allow for charing or		
215	consting. PVC shielding (or		
	where supply and return hoses		
	move under normal operation.		
	Connection to spinner motor to		
216	be quick disconnect		
	Components of entire hydraulic		
217	system shall be protected by relief		
~ ~ ,	valves.		
	Fluid flow to spreader control		
218	functions shall remain constant		
	with varying engine speed.		

	All hydraulic valves for blade,		
	dump and sanding controls must		
	be fully functional and contained		
	within a moisture proof stainless		
219	steel containment box having		
	inside dimensions of large enough		
	size to facilitate easy repair and		
	maintenance of the valves		
	contained within.		
-	The box is to include an easily		
220	removable cover to allow access		
	for cleaning and servicing.		
	All hydraulic and air cylinders		
	supplied shall be severe duty type		
	with replaceable piston seals and		
	rod seals and piston rods shall be		
221	either induction hardened steel		
	with hard chrome plating to a		
	minimum thickness of 0.004 inch		
	or be hardened nitride steel.		
222	Electronic Spreader Control System	L	
	Spreader control will have an easy	 	
223	to read display during both day		
225	and night operations.		
-	Spreader control will have	 	
224	adjustable spinner control		
	Spreader control will have a blast	 	
225	button for tomporany incroased		
225	application rate control		
	Spreader centrel will have a		
226	Spreader control will have a		
	power on and on switch.		
227	Spreader control will have		
	adjustable spread rate control.		
	Dump box spreading conveyor		
	shall be supplied with ground		
	oriented servo metering devices		
228	to ensure continuous constant		
	application rate of material over a		
	variable speed and engine rpm		
	range.		
	The system shall be powered on		
220	the accessory side of the ignition		
229	switch, shutting down when the		
	key is turned off.		
230	Truck Front Blade Coupler System		

	Truck will be equipped with a low		
224	mount style front blade coupler		
231	configured to operate hydraulic		
	reversible front blade. Blade		
	hitch and blade to have quick		
	coupler system installed for easy		
	blade hook up.		
	The quick coupler hoses for blade		
	angle must be routed and		
	mounted to the left of the plow		
232	hitch on the left front side of the		
	truck plow frame at a height close		
	to the top of the truck frame rails,		
	and must extend 3 inches.		
	The blade angle hydraulic hose		
	connections to be provided with a		
222	specialty coupling allowing the		
233	operator to couple and uncouple		
	the connection with residual		
	pressure in the hydraulic circuit.		
	Hydraulic circuit quick coupler		
	connections are to be securely		
	anchored, providing ample		
	operator hand access at the		
	junctions positions, and are to be		
234	equipped with identified matched		
	pairs that cannot be mistakenly		
	attached in error. Couplings are to		
	be connected to a		
	depressurization circuit through		
	the joystick armrest.		
	The front blade hydraulic lift		
	circuit is to include an adjustable		
	cushion ride mechanism		
225	incorporated with the lift cylinder,		
235	mounted on the front plow		
	attachment coupler frame such as		
	the Larochelle, LSS-100 or		
	approved equal.		
	Length extension ahead of truck		
	grill for the pivot points of coupler		
236	hoist and lower blade attachment		
	pivot anchor must be less than 30		
	cm.		
	An opening, or removable by bolt		
	fastener centre access panel		
	allowing access area in front of		
237	the hydraulic pump allowing		
	removal and servicing of front		
	pump of approximately 45 x 45		
	cm.		

	All cylinder rods shall be nitrate		
	process treated using a salt bath		
	treatment such as ARCOR N		
	Premium, coated with a poly resin		
238	with a manufacturer's warranty of		
	at least two years and shall be		
	rebuildable Mailbot model or		
	equivalent.		
	The low mount style coupler		
	system are to be provided which		
	will allow conventional opening of		
239	engine bonnet without		
	requirement of any additional		
	component repositioning or		
	relocation.		
	Unit must have 5/8 inch,		
240	minimum, cheek plates and push		
	plates.		
241	Front Mounted Dual Angle Snow P	ow	
	Eleven foot, full trip power		
242	reversible front snow plow blade.		
243	Full trip blade with minimum 2		
	springs		
244	Width of blade at 0 degree angle		
244	to be 11'. Blade to provide at least		
	an 8'9" clearing path at 35° angle		
	Required clearing angles to be		
245	operator selectable from 0° angle		
	to at least a 35° angle in either		
	direction, left or right.		
	The attack angle of the blade		
246	cutting edge must provide an		
246	adjustment range from 70°		
	through 80° when mounted on		
	the truck.		
	the design arc or the moldboard		
247	should have the top edge leading		
247	losst 20" when the attack angle of		
	the cutting edge is set at 90°		
	Mercentry of one year or parts		
248	and labour must be supplied		
	Moldboard beight to be at least		
240	A2" or greater, but not to aveced		
249	56"		
250	iviolaboard material to be steel,		
	not less than 10 gauge.		

	Angle reversing/adjustment		
251	provided via - dual double acting		
_	cylinders with nitrated rod.		
	Reversing cylinders hydraulic		
	circuit to incorporate a cushion		
252	valve pressure release for		
	overload/shock load protection.		
252	To be equipped with a heavy duty		
253	drive frame.		
	Drive frame blade angle		
	adjustment and support member		
	is to have heavy duty		
	perpendicular rib reinforcement		
	to prevent warping or bending		
	from plowing stress (1/2" X 3"		
254	minimum). Perpendicular rib		
	reinforcement to include two mid		
	ribs, and a		
	continuous full arc circumference		
	located at or near outer edge of		
	frame.		
	Blade moldboard drilled 2" from		
255	outside edges and have a 4"		
255	spacing center to center for all		
	other bolts. 5/8" bolts to be used		
	Cutting edge must be 3/4" thick X		
256	8" carbide reversible.		
250			
	A flexible reinforced rubber		
	deflector flap 12" wide by 1/2"		
257	thick, installed on the upper front		
237	edge along the length of blade		
	installed to act as a forward		
	curled snow deflector extension.		
	Blades must be painted a highly		
	conspicuous colour for maximum		
258	night visibility. Standard		
200	commercial equipment yellow or		
	a bright orange are		
	recommended.		

	To be installed on the back, at the		
	outer discharge ends of both left		
	and right side end, a large		
	reflective highly visible (red/white		
	conspicuity reflector tape) panel		
259	sign (approximately		
	12"wX I8"h) To be positioned at		
	the optimal angle when plowing		
	so as to provide maximized view		
	to traffic approaching from the		
	rear.		
	To be installed on the back, top,		
	at the left and right side outer end		
	of the blade, a durable (steel with		
	cable construction) flexible bright		
260	reflective position indicator (2"w		
260	X 8"h) to provide the operator		
	and approaching traffic with a		
	visual reference of the position		
	of the extreme outer end of the		
	blade.		
	Blades to have a curb runner		
261	installed at the left and right ends		
	of the blades.		
262	Patrol Style Side Wing		
262	Patrol Style Side Wing Unit to have 1 super blue plow tip		
262	Patrol Style Side Wing Unit to have 1 super blue plow tip light mounted on rear outer end		
262 263	Patrol Style Side Wing Unit to have 1 super blue plow tip light mounted on rear outer end of wing facing rearward in a plow		
262 263	Patrol Style Side Wing Unit to have 1 super blue plow tip light mounted on rear outer end of wing facing rearward in a plow down configuration.		
262	Patrol Style Side Wing Unit to have 1 super blue plow tip light mounted on rear outer end of wing facing rearward in a plow down configuration. Unit shall have an auxiliary		
262 263 264	Patrol Style Side WingUnit to have 1 super blue plow tiplight mounted on rear outer endof wing facing rearward in a plowdown configuration.Unit shall have an auxiliaryjoystick provided for wing plow		
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262 263 264	Patrol Style Side WingUnit to have 1 super blue plow tiplight mounted on rear outer endof wing facing rearward in a plowdown configuration.Unit shall have an auxiliaryjoystick provided for wing plowcontrol.11 foot rear right hand side		
262 263 264	Patrol Style Side WingUnit to have 1 super blue plow tiplight mounted on rear outer endof wing facing rearward in a plowdown configuration.Unit shall have an auxiliaryjoystick provided for wing plowcontrol.11 foot rear right hand sidemounted front wing, Larochelle		
262 263 264 265	Patrol Style Side WingUnit to have 1 super blue plow tiplight mounted on rear outer endof wing facing rearward in a plowdown configuration.Unit shall have an auxiliaryjoystick provided for wing plowcontrol.11 foot rear right hand sidemounted front wing, Larochellemodel 11W120R, or approved		
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262 263 264 265 266	Patrol Style Side WingUnit to have 1 super blue plow tiplight mounted on rear outer endof wing facing rearward in a plowdown configuration.Unit shall have an auxiliaryjoystick provided for wing plowcontrol.11 foot rear right hand sidemounted front wing, Larochellemodel 11W120R, or approvedequal.Wing must be power hydrauliccontrolled from centre console inthe truck cab.		
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	Front tower frame and rear frame		
	support attachments shall extend		
269	to both chassis frame rails to		
	ensure force is distributed evenly		
	across the truck.		
	Chassis cheek attachment plates		
	to extend 16 inches forward of 6		
	inch aft of the cross connection		
	support. In addition to cross		
270	member vertical supporting		
	triangular load bracing to extend		
	from wing slider position to the		
	ends of the cheek plates		
	Converd mounting past to allow		
271	forward mounting post to allow		
	for easy wing removal.		
	The forward mounting post to		
	offer a minimum 15 inches of		
	vertical blade lift to the fully		
272	raised position. This front wing lift		
	must include a floating position		
	allowing a minimum 4 inches of		
	free travel.		
	In the carry position the wing		
	plow shall be brought parallel to		
	the body unit in order to maintain		
272	overall width of the plow truck to		
275	a minimum, secured in the		
	transport position plow blade		
	shall protrude less than 20 inches		
	from the side of the truck body.		
	The rear patrol style lift assembly		
274	is to be a hydraulically operated		
274	telescopic, retractable, heavy duty		
	single lift push arm assembly.		
	Rear attachment push arm is		
	totally detachable from the		
275	support by the removal of a single		
	pin and disconnection hose guick		
	couplers.		
	Hydraulic circuit quick coupler		
	connections are to be securely		
	anchored, providing ample		
	operator hand access at the		
276	junctions positions, and are to be		
	equipped with identified matched		
	pairs that cannot be mistakenly		
	attached in error.		

277	The operation of the front wing attachment shall be provided with a wing floating mechanism in order to allow wing plow to follow the road contour.		
278	Wing plow shall be equipped with a 4-8-30 deg high lift roll over protection trip mechanism having a rubber spring tension adjustment.		
279	The rear wing extend/retract hydraulic circuit is to include a cushion valve for overload protection.		
280	The push arm shall be free to pivot in their mounts to allow safe storage against the wing when the wing is not mounted.		
281	Cutting edge must be minimum ¾" x 8" reversible carbid tip		
282	To also have 4 equidistant spaced rubber wear pads installed along the mouldboard.		
283	Moldboard is to be 3/16 inch (7 Ga) thick.		
284	Wing shall be supplied complete with all hoses, valves and hydraulics required to facilitate its attachment to the truck.		
285	Standard commercial safety yellow colour.		
286	Wing blades must be equipped with 2 (1 front and 1 rear) safety chains of sufficient strength capable to support the wing in the carry position while travelling, or as required in the event of a hydraulic or mechanical failure.		
287	All safety chains are to be attached to the wing with shackles, not welded chain method.		
288	Location of chains and attachment points will provide optimum multiple failures protection without any operation		

	interference. Final location to be approved by the Town.		
289	Adjustment and latching mechanism for the chains shall be able to be performed from ground level.		
290	Where it is necessary for operators to access elevated positions, a suitable safe slip proof foot thread(s) and handles shall be installed, in such a manner so as not to impede any operations of the complete unit.		
291	To be installed on the top back of the blade, at the outer discharge end, a durable flexible bright flag stick position indicator to provide the operator with a visual reference of the position of the extreme outer end of the wing blade.		
292	Auto Lube System		
292 293	Auto Lube System Vehicles are to be equipped with an auto lubrication system Groeneveld single line EPO grease system or approved equal.		
292 293 294	Auto Lube System Vehicles are to be equipped with an auto lubrication system Groeneveld single line EPO grease system or approved equal. Supplies grease to all points that can be utilized with an automatic greasing system, including the side wing.		
292 293 294 295	Auto Lube SystemVehicles are to be equipped with an auto lubrication systemGroeneveld single line EPO grease system or approved equal.Supplies grease to all points that can be utilized with an automatic greasing system, including the side wing.System constructed of corrosion resistant brass or stainless steel injectors, fittings, distribution blocks and connectors.		
292 293 294 295 295 296	Auto Lube SystemVehicles are to be equipped with an auto lubrication systemGroeneveld single line EP0 grease system or approved equal.Supplies grease to all points that can be utilized with an automatic greasing system, including the side wing.System constructed of corrosion resistant brass or stainless steel injectors, fittings, distribution blocks and connectors.System to have a minimum of a 4 liter closed sealed grease reservoir that can only be filled through an in line grease filter.		
292 293 294 295 296 297	Auto Lube SystemVehicles are to be equipped with an auto lubrication system Groeneveld single line EP0 grease system or approved equal.Supplies grease to all points that can be utilized with an automatic greasing system, including the side wing.System constructed of corrosion resistant brass or stainless steel injectors, fittings, distribution blocks and connectors.System to have a minimum of a 4 liter closed sealed grease reservoir that can only be filled through an in line grease filter.System to be provided with a pneumatic pump powered by the truck air cylinder liners.		

	Pump pressure activated injectors		
	to provide adjustable flow rates		
	allowing for each grease point to		
299	be individually adjustable for the		
	amount of grease received at that		
	noint		
	To be a parallel supply line		
	system eliminating negative		
300	effects to other grease fittings if		
	one grease fitting malfunctions		
	Supply lines to be rated for high		
	pressure grease use to be		
201	constructed of correction resistant		
501	material such as pylon, staipless		
	steel er conner nickel		
	Steel of copper flickel.		
	Areas of neavy movement or		
302	prone to damage requiring extra		
	protection should be equipped		
	with wire braid hydraulic lines.		
	Supply lines to be easily installed		
202	and replaced, and mounted to		
303	provide the maximum protection		
	from chafing and interference		
	with other components.		
	Electronic controls to be installed		
304	inside a waterproof box to		
	provide moisture proof		
	protection.		
	Electronic control to provide		
	operators alert functions to		
305	normal operations or pressure		
	malfunctions via warning lights or		
	buzzers.		
	System test button to allow		
306	maintenance to perform a test of		
500	the systems functioning, including		
	a pressure operating gauge.		
	System to provide an override		
	with a continuous cycle to allow		
307	for filling of the new lines and		
	replacement grease during heavy		
	duty maintenance cycles.		
	The timing system shall be		
308	capable of providing readouts of		
500	the number of cycles, the number		
	of alarms and consecutive alarms.		

-		-	-	
309	System shall provide consistent grease application rate, to be unaffected by temperature shifts.			
310	System to include an automatic low level warning indicator.			
311	Systems components to be built by an ISO 9001 registered company.			
312	Vendor must provide with the tender a document with a detailed listing of each individual grease point on the truck chassis and for all the attachments that is to be included with an automatic lubrication system.			
313	The auto lubrication system is to include all of the grease point's possible (non rotating fittings) on the truck chassis and the attachments that are manufacturer recommended for a greasing frequency of 500 operational hours or less			
314	A grease chart shall be supplied			
315	Miscellaneous	<u> </u>	[
316	Truck to be equipped with mud flaps on rear axles in front and rear of wheels, front axle provide with rear mud flaps, plus one additional mud flap installed approximately 24 inches in front of spinner to help prevent snow/slush from affecting spinner pattern consistency, possibly the rear of right side cab step.			
317	Frame and undercarriage to be painted black.			
318	Backup alarm to be installed, Brigade SA-BBS-97 or approved equal.			

	All accessory wiring must be done		
	with moisture proof connections,		
	and protected from pinching and		
	abrasion by conduit, junction		
	boxes where available, and secure		
	fastening. Connections shall be		
319	soldered and sealed; butt splices		
	and crimp connections are not		
	acceptable. Main wire harness for		
	body lamps shall be Grote Ultra		
	Blue with plug connected Grote		
	jumper cables to individual body		
	lamps.		
	All accessory wiring to be		
320	coloured and number coded		
	Trucke are to be analyided with a		
	Trucks are to be provided with a		
	legible manufacturers door post		
321	weight sticker showing the		
	vehicles VIN, Gross Vehicle		
	Weight Rating and also to include		
	front and rear axle capacity.		
322	Truck Cab painted white and dump		
	box painted grey.		
323	Operator Training		
	Provide two appendixes "A"		
	Chassis and "B" Body, which are		
	Chassis and "B" Body, which are		
	Chassis and "B" Body, which are to provide a comprehensive list of fast moving maintenance parts		
324	Chassis and "B" Body, which are to provide a comprehensive list of fast moving maintenance parts and consumable service parts		
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	The bidder must be a manufacturer	
	and/or factor branch, which is	
	located in Newfoundland, Canada,	
	engaged in the business of selling,	
	dealing, and servicing the	
	equipment bid upon, and must	
	maintain a responsible stock of	
	parts in its local Newfoundland	
	facility. Parts fill rate must be	
	listed. Parts fill rate is	
	%. Approximately	
	inventory value of stocked parts in	
	Newfoundland must be listed.	
	Closest	
	service and parts facility must be	
	listed	
	Bidder must be able to produce	
	such reasonable stocked parts as	
	needed within 24 hours of request.	
	The successful bidder must also	
	have a minimum of two factor	
	trained mobile technicians, which	
326	are available in a reasonable time	
	for service and/or repairs and	
	located within 250 km of the Town	
	of Deer Lake, Newfoundland.	
	Distance from nearest technician to	
	be listed. km.	
	Also, any major component	
	deficiencies requiring the machine	
	to be floated back to its closest	
	manufacture repair shop will be	
	included (at no extra cost) for a	
	minimum of six (6) months from	
	delivery date It is agreed that	
	shipping/float costs for a minimum	
	of the first six menths from time of	
	or the first six months from time of	
	machine delivery will be covered by	
	the bidder, and all float	
	arrangements would be made	
	through the bidder prior to a	
	machine shipping for any warranty	
	work. Terms are warranty are to	
	be specified by the bidder and	
	included.	